

## BEST AVAILABLE COPY

### IN THE CLAIMS

1. (currently amended) A method of recording and reproducing data to a recording medium, comprising the steps of:

comparing recording medium user identification data read from the recording medium upon which are recorded the user identification data along with main data with recorder and player user identification data read from a data recorder and player, ~~for recordation and reproduction of the main data to and from the recording medium;~~

detecting whether a user identification data server is connected to the data recorder and player; and

enabling the data recorder and player to ~~recording~~record and/or reproduce the main data to and/or ~~reproducing the main data from the~~ recording medium when the recording medium user identification data are coincident with the recorder and player user identification data a first number of times; and

enabling the data recorder and player to record and/or reproduce the main data to and/or from the recording medium when the recording medium user identification data are coincident with the recorder and player user identification data and when the user identification data server is connected to the data recorder and player, a second number of times which is greater than the first number of times.

2. (previously presented) The method according to claim 1, wherein:

further recorded on the recording medium are management data to manage recordation to and reproduction from the recording medium; and

the main data are recorded to and reproduced from the recording medium based on the management data read from the

recording medium when the recording medium user identification data are not coincident with the recorder and player user identification data.

4. (previously presented) The method according to claim 3, wherein the recorder and player user identification data are buried in the main data to be recorded to the recording medium.

5. (previously presented) The method according to claim 3, wherein the recorder and player user identification data are encrypted and buried in the main data to be recorded to the recording medium.

6. (currently amended) The method according to claim 1, wherein:

further recorded in the recording medium are management data to manage recordation to and reproduction from the recording medium; and

the main data are reproduced from the recording medium based on the management data read from the recording medium when the recording medium user identification data are not coincident with the recorder and player user identification data.

7. (previously presented) The method according to claim 6, further comprising the step of permitting the data reproduction from the recording medium when the recording medium user identification data are not coincident with the recorder and player user identification data and the recording medium user identification data are specific identification data.

8. (previously presented) The method according to claim 7, wherein the specific identification data indicate that the recording medium is an original one.

9. (previously presented) The method according to claim 1, wherein the recorder and player user identification data are set by a user.

10. (previously presented) The method according to claim 9, wherein the recorder and player user identification data include a user name.

11. (currently amended) A method of recording data to a recording medium, comprising the steps of:

comparing recording medium user identification data read from the recording medium upon which are recorded the recording medium user identification data along with main data with recorder and player user identification data read from data recorder and player;  
~~for recording the main data to the recording medium~~

detecting whether a user identification data server is

connected to the data recorder and player; and

enabling the data recorder and player to record recording—the  
main data to the recording medium when the recording medium user  
identification data are coincident with the recorder and player user  
identification data a first number of times; and

enabling the data recorder and player to record the main data to  
the recording medium when the recording medium user identification  
data are coincident with the recorder and player user identification  
data and when the user identification data server is connected to  
the data recorder and player, a second number of times which is  
greater than the first number of times.

12. (previously presented) The method according to claim 11,  
wherein:

further recorded on the recording medium management data to  
manage recording to the recording medium; and

the main data are recorded to the recording medium based on the  
management data read from the recording medium when the recording  
medium user identification data are not coincident with the  
recorder and player user identification data.

13. (previously presented) The method according to claim 11,  
wherein when the recording medium user identification data are  
coincident with the recorder and player user identification data the  
main data to be recorded to the recording medium are encrypted with

the recorder and player user identification data as an encryption key and then recorded to the recording medium.

14. (previously presented) The method according to claim 13, wherein the recorder and player user identification data are buried in the main data to be recorded to the recording medium.

15. (previously presented) The method according to claim 14, wherein the recorder and player user identification data are encrypted and buried in the main data to be recorded to the recording medium.

16. (previously presented) The method according to claim 11, wherein the recorder and player user identification data are set by a user.

17. (previously presented) The method according to claim 16, wherein the recorder and player user identification data include a user name.

18. (currently amended) A recording-medium recorder, comprising:

a head operable to scan a recording medium upon which are stored recording medium user identification data along with main data;

a memory in which are recorded memory user identification data;

and

a controller operable to compare the recording medium user identification data with the memory user identification data and to control operations for playback of the recording medium based on a result comparison and to detect whether a user identification data server is connected to the recording-medium recorder,

wherein the recording-medium recorder is operable to record the main data to the recording medium when the recording medium user identification data are coincident with the memory user identification data a first number of times, and

wherein the recording-medium recorder is operable to record the main data to the recording medium when the recording medium user identification data are coincident with the memory user identification data and when the user identification data server is connected to the data recorder and player, a second number of times which is greater than the first number of times.

19. (previously presented) The apparatus according to claim 18, wherein when the recording medium user identification data are coincident with the memory user identification data the controller controls the head to record the main data to recording medium.

20. (currently amended) The apparatus according to claim 18, wherein the memory is provided in a ~~the~~ user identification data server connected to a data recorder and player.

21. (previously presented) The apparatus according to claim 20, wherein the controller makes mutual authentication with

the user identification data server when it is judged that the user identification data server is connected to the data recorder and player.

22. (previously presented) The apparatus according to claim 21, wherein when the authentication is successful the controller instructs the user identification data server to read the memory user identification data.

23. (previously presented) The apparatus according to claim 22, wherein the memory user identification data are encrypted and sent from the user identification data server to the controller.

24. (previously presented) The apparatus according to claim 21, wherein when the authentication is not successful the controller ceases recording to the recording medium.

25. (previously presented) The apparatus according to claim 21, wherein when it is judged that the user identification data server is not connected to the data recorder and player, the controller prompts a user to connect the user identification data server to the data recorder and player.

26. (previously presented) The apparatus according to claim 19, wherein:

further recorded on the recording medium are management data to manage recording to the recording medium; and

the controller records the main data to the recording medium based on the management data read from the recording medium when the recording medium user identification data are not coincident with the memory user identification data.

27. (previously presented) The apparatus according to claim 26, wherein when the recording medium user identification data are coincident with the memory user identification data the main data to be recorded to the recording medium are encrypted with recorder and player the user identification data being taken as an encryption key and then recorded by the head to the recording medium.

28. (previously presented) The apparatus according to claim 27, wherein the memory user identification data are buried in the main data to be recorded to the recording medium.

29. (previously presented) The method according to claim 28, wherein the controller encrypts the memory user identification data and buries it in the main data to be recorded to the recording medium.

30. (previously presented) The apparatus according to claim 18, wherein user identification data set by a user are written to the memory.

31. (previously presented) The apparatus according to claim 18, wherein user identification data to be stored into the memory is



set by a user.

32. (previously presented) The apparatus according to claim 31, wherein the user identification data include a user name.

33. (currently amended) A recording-medium playback method, comprising the steps of:

comparing recording medium user identification data read from a recording medium upon which are recorded the recording medium user identification data along with main data with recorder and player user identification data read from a data recorder and player ~~for reproducing the main data from the recording medium; and~~

detecting whether a user identification data server is connected to the data recorder and player;

enabling the data recorder and player to reproduce ~~reproducing~~ the main data from the recording medium when the recording medium user identification data are coincident with the data recorder and player user identification a first number of times; and

enabling the data recorder and player to reproduce the main data from the recording medium when the recording medium user identification data are coincident with the data recorder and player user identification and when the user identification data server is connected to the data recorder and player, a second number of times which is greater than the first number of times.

34. (previously presented) The method according to

claim 33, wherein:

further recorded on the recording medium are management data to manage operations of data reproduction from the recording medium; and

the main data are reproduced from the recording medium based on the management data read from the recording medium when the recording medium user identification data are not coincident with the recorder and player user identification data .

35. (previously presented) The method according to claim 34, wherein when the recording medium user identification data are not coincident with the recorder and player user identification data and when the recording medium user identification data are specific identification data playback of the recording medium is allowed.

36. (previously presented) The method according to claim 35, wherein the specific identification data indicate that the recording medium is an original one.

37. (previously presented) The method according to claim 33, wherein:

encrypted data are recorded on the recording medium; and

the main data read from the recording medium are decrypted using the recording medium user identification data as an encryption key when the recording medium user identification data are coincident

with the recorder and player user identification data.

38. (previously presented) The method according to claim 33, wherein the recorder and player user identification data are set by a user.

39. (previously presented) The method according to claim 38, wherein the user identification data include a user name.

40. (currently amended) A recording-medium player, comprising:  
a head operable to scan a recording medium upon which are recorded encrypted data as well as at least recording medium user identification data and reproduction management data;

a memory in which are stored memory user identification data;  
and

a controller operable to compare the recording medium user identification data with the memory user identification data and to control operations for playback of the recording medium based on a result of comparison and to detect whether a user identification data server is connected to the recording-medium player,

wherein the recording-medium recorder is operable to reproduce the main data from the recording medium when the recording medium user identification data are coincident with the memory user identification data a first number of times, and

wherein the recording-medium player is operable to reproduce the main data from the recording medium when the recording medium user identification data are coincident with the memory user

identification data and when the user identification data server is connected to the data recorder and player, a second number of times which is greater than the first number of times.

41. (previously presented) The apparatus according to claim 40, wherein when the recording medium user identification data are coincident with the memory user identification data the controller allows the reproduction of the main data from the recording medium.

42. (previously presented) The apparatus according to claim 41, wherein when the recording medium user identification data are coincident with the memory user identification data the controller decrypts the main data read by the head from the recording medium using the recording medium user identification data.

43. (previously presented) The apparatus according to claim 42, wherein when the recording medium user identification data cannot be detected the controller controls the operations for playback of the recording medium based on the reproduction management data read from the recording medium.

44. (currently amended) The apparatus according to claim 40, wherein the memory is provided in ~~a~~the user identification data server connected to the data recorder and player.

45. (previously presented) The apparatus according to claim

40, wherein the controller performs mutual authentication with the user identification data server when it is judged that the user identification data server is connected to the data recorder and player.

46. (previously presented) The apparatus according to claim 45, wherein when the authentication is successful the controller instructs the memory user identification data server to read the user identification data from the memory.

47. (previously presented) The apparatus according to claim 46, wherein the memory user identification data are encrypted and sent from the user identification data server.

48. (previously presented) The apparatus according to claim 45, wherein when the authentication is not successful the controller ceases the operations for playback from the recording medium.

49. (previously presented) The apparatus according to claim 45, wherein when it is judged that the user identification data server is not connected to the data recorder and player the controller prompts a user to connect the user identification data server to the data recorder and player.

50. (previously presented) The apparatus according to claim 41, wherein when the recording medium user identification data are not coincident with the user identification data memory and the

recording medium user identification data are a specific identification data the controller allows the reproduction of data from the recording medium.

51. (previously presented) The apparatus according to claim 50, wherein the specific identification data indicate the recording medium is an original one.

52. (previously presented) The apparatus according to claim 50, wherein the user identification data set by the user are written to the memory.

53. (previously presented) The apparatus according to claim 40, wherein the recording medium user identification data are set by a user.

54. (Previously presented) The apparatus according to claim 53, wherein the user identification data include a user name.

55. (previously presented) A method of controlling data copying, comprising the steps of:

comparing main data user identification data read from main data within which at least the main data user identification data are buried with recorder and player user identification data read from a data recorder and player ~~for copying the main data;~~

detecting whether a user identification data server is connected to the data recorder and player;

enabling the data recorder and player to copy ~~and controlling~~  
~~data output when the main data~~ when the main data user  
identification data are coincident with the recorder and player  
user identification data a first number of times; and

enabling the data recorder and player to copy the main data  
when the main data user identification data are coincident with  
the recorder and player user identification data and when the  
user identification data server is connected to the data recorder and  
player a second number of times which is greater than the first number  
of times.

56. (previously presented) The method according to claim 55,  
wherein:

the main data further includes management data to manage  
operations of copying the data; and

the data copying is controlled based on the management  
coincident with the recorder and player user identification  
data.

57. (previously presented) The method according to claim  
56, wherein when the main data user identification data are  
coincident with the recorder and player user identification data  
the main data user identification data are encrypted using the main  
data user identification data as an encryption key before being  
outputted.

58. (previously presented) The method according to claim 57,

wherein the recorder and player user identification data are buried in the main data.

59. (previously presented) The method according to claim 57, wherein the recorder and player user identification data are encrypted and buried into the main data.

60. (previously presented) The method according to claim 56, wherein when the management data indicates that billing is required for copying the main data it is judged whether the billing is possible and the copying is performed when a result of judgment indicates that the billing is possible.

61. (previously presented) The method according to claim 60, wherein the billing is such that a number of times that main data can be copied is decremented.

62. (previously presented) The method according to claim 61, wherein when it is judged that the billing is not possible and the number of times main data can be copied is not incremented, the copying operation is ceased.

63. (previously presented) The method according to claim 55, wherein the recorder and player user identification data are set by a user.



64. (previously presented) The method according to claim 63, wherein the user identification data include a user name.

65. (currently amended) A data reproducing method, comprising the steps of:

comparing main data user identification data extracted from main data within which at least the main data user identification data are buried with recorder and player user identification data read from a data recorder and player; ~~for reproduction of the main data~~

detecting whether a user identification data server is connected to the data recorder and player; and

enabling the data recorder and player to reproduce~~reproducing~~ the main data when the main data user identification data are coincident with the recorder and player user identification data a first number of times; and

enabling the data recorder and player to reproduce the main data when the main data user identification data are coincident with the recorder and player user identification data and when the user identification data server is connected to the data recorder and player, a second number of times which is greater than the first number of times.

66. (previously presented) The method according to claim 65, wherein:

the main data further includes a management data to manage an

operation of reproducing the main data; and

the main data are reproduced based on the management data when the main data user identification data are not coincident with the recorder and player user identification data.

67. (previously presented) The method according to claim 66, wherein when the main data user identification data cannot be detected from the main data the operation of reproducing the main data is controlled based on the management data.

68. (previously presented) The method according to claim 66, wherein when the main data user identification data are not coincident with the recorder and player user identification data and the main data user identification data are specific identification data the reproduction of the main data is allowed.

69. (previously presented) The method according to claim 68, wherein the specific identification data indicate that the recording medium is an original one.

70. (previously presented) The method according to claim 66, wherein when the management data indicate that billing is required for reproduction of the main data it is judged whether the billing is possible and a main data are reproduced when the result of judgment indicates that the billing is possible.

71. (previously presented) The method according to claim 70, wherein the billing is performed by decrementing a number of times the reproduction can be performed.

72. (previously presented) The method according to claim 71, wherein when it is judged that the billing is not possible and the number of times of reproduction is not incremented the operation of reproduction is inhibited.

73. (previously presented) The method according to claim 65, wherein:

the main data include encrypted data; and

the main data user identification data are decrypted using the main data user identification data when the main data user identification data are coincident with the recorder and player user identification data.

74. (previously presented) The method according to claim 65, wherein the recorder and player user identification data are set by a user.

75. (previously presented) The method according to claim 74, wherein the user identification data include a user name.